

METALLIC HONEYCOMB AS CATALYST CARRIER WITH MICROSTRUCTURES FOR FLOW MIXING

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Abstract

A metallic honeycomb body, such as a catalyst carrier body for the exhaust system of a motor vehicle, includes sheet metal layers at least partly having at least one macrostructure forming a plurality of channels for conveying a fluid in a given flow direction. The at least one macrostructure determines a shape of the honeycomb body, an average channel width and essential mechanical properties of the honeycomb body. At least a part of the sheet metal layers have at least partial regions with microstructures. The microstructures have a height being substantially from 0.01 to about 0.3 times the average channel width and being at least 15 μ m. The microstructures extend transversely or at an angle relative to the given flow direction and are spaced substantially from 1-10 mm apart from each other in the given flow direction.

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